KISSsys Live Stream Training

Advanced: System Calculations

September 21-22, 2021

Sharing Knowledge
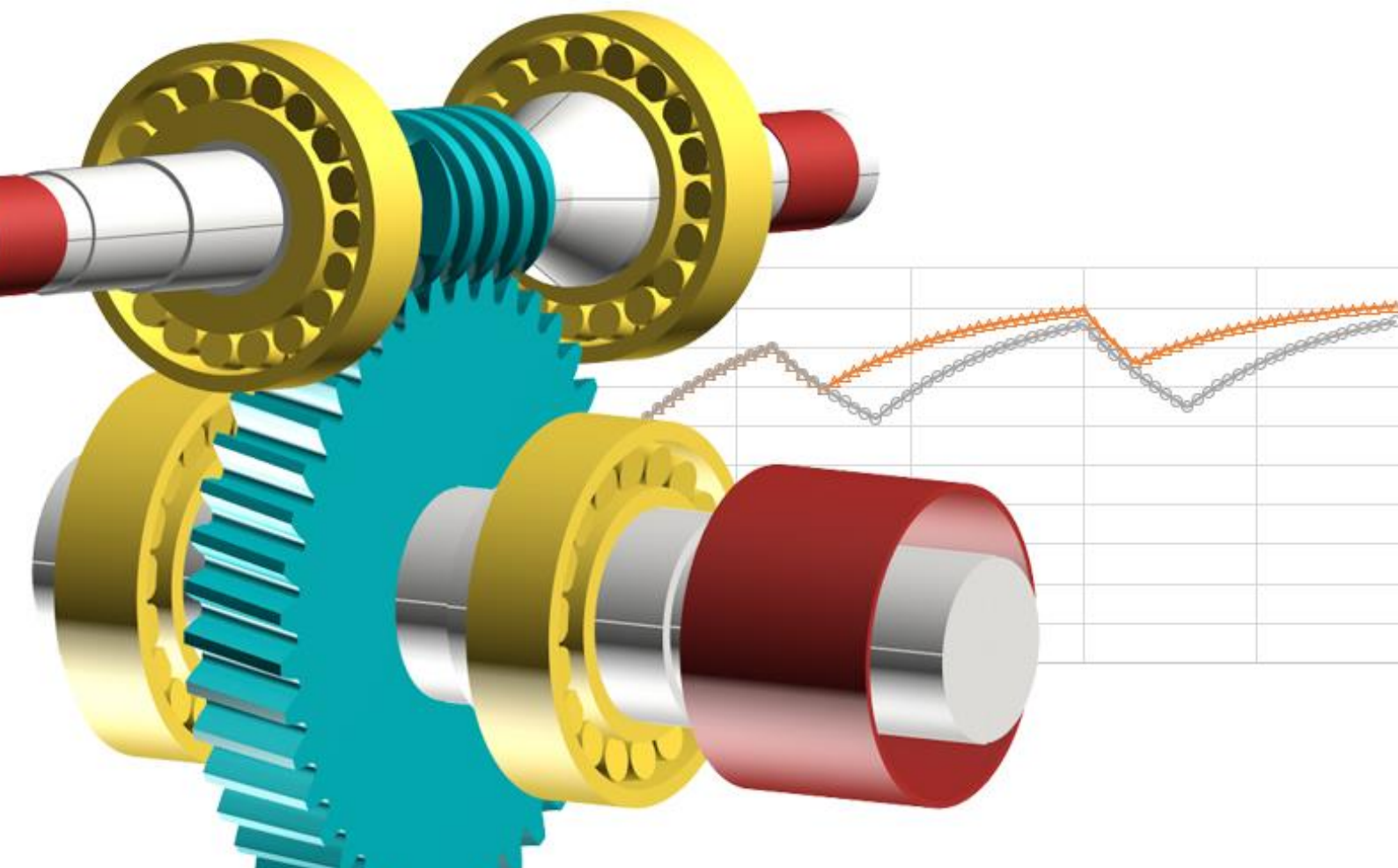
Day 1 – September 21, 2021

08:30 – 08:40	Welcome, introduction
08:40 – 10:10	Efficiency and thermal analysis
10:10 – 10:30	Break
10:30 – 12:00	Load spectrum calculation
Exercises	**"Efficiency and load spectrum calculation"**
16:00 – 17:00	Questions

Day 2 – September 22, 2021

08:30 – 08:40	Exercise follow up
08:40 – 10:10	Housing stiffness consideration
10:10 – 10:30	Break
10:30 – 12:00	Modal analysis, system dynamics
Exercises	**"Housing stiffness"** **"System dynamics"**
16:00 – 17:00	Questions

Efficiency and Thermal Analysis

- Calculation of gear, bearing and churning losses
- Calculation of dissipation through housing and rotating parts
- Oil temperature over time

Load Spectrum Template

- Definition of a spectrum in KISSsys
- Calculation with different options
- Checking the result data

Housing Stiffness

- Theory
- Characteristics of a reduced stiffness matrix
- Reading in and calculating in KISSsys

Modal Analysis

- Calculation of system eigenfrequencies
- Generation and evaluation of Campbell Diagram